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L1 11376 S GLUCANASE  
L2 62 S L1 AND SUCCINOGENES  
L3 41 S L1 AND (FIBROBACTER (2N) SUCCINOGENES)  
L4 17 DUP REM L3 (24 DUPLICATES REMOVED)

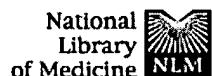
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L5 4 S L4 AND (MUTANT OR TRUNC?)  
L6 4 DUP REM L5 (0 DUPLICATES REMOVED)

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4	BRS	2134	glucanase	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB
5	BRS	8	glucanase and succinogenes	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB



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1: [Tsai LC, Shyur LF, Lin SS, Yuan HS.](#) Related Articles  
 Crystallization and preliminary X-ray diffraction analysis of the 1,3-1,4-beta-D-glucanase from *Fibrobacter succinogenes*.  
*Acta Crystallogr D Biol Crystallogr.* 2001 Sep;57(Pt 9):1303-6.  
 PMID: 11526326 [PubMed - indexed for MEDLINE]

2: [Chen JL, Tsai LC, Wen TN, Tang JB, Yuan HS, Shyur LF.](#) Related Articles  
 Directed mutagenesis of a specific active site residues on *Fibrobacter succinogenes* 1,3-1,4-beta-D-glucanase significantly affects catalysis and enzyme structural stability.  
*J Biol Chem.* 2001 May 25;276(21):17895-901.  
 PMID: 11279139 [PubMed - indexed for MEDLINE]

3: [Iyo AH, Forsberg CW.](#) Related Articles  
 A cold-active glucanase from the ruminal bacterium *Fibrobacter succinogenes* S85.  
*Appl Environ Microbiol.* 1999 Mar;65(3):995-8.  
 PMID: 10049853 [PubMed - indexed for MEDLINE]

4: [Ay J, Hahn M, Decanniere K, Piotukh K, Borris R, Heinemann U.](#) Related Articles, Protein, Structure  
 Crystal structures and properties of de novo circularly permuted 1,3-1,4-beta-glucanases.  
*Proteins.* 1998 Feb 1;30(2):155-67.  
 PMID: 9489923 [PubMed - indexed for MEDLINE]

5: [Schimming S, Schwarz WH, Staudenbauer WL.](#) Related Articles, Nucleotide, Protein  
 Structure of the *Clostridium thermocellum* gene licB and the encoded beta-1,3-1,4-glucanase. A catalytic region homologous to *Bacillus lichenases* joined to the reiterated domain of clostridial cellulases.  
*Eur J Biochem.* 1992 Feb 15;204(1):13-9.  
 PMID: 1740123 [PubMed - indexed for MEDLINE]

6: [Teather RM, Erfle JD.](#) Related Articles, Nucleotide, Protein  
 DNA sequence of a *Fibrobacter succinogenes* mixed-linkage beta-glucanase (1,3-1,4-beta-D-glucan 4-glucanohydrolase) gene.  
*J Bacteriol.* 1990 Jul;172(7):3837-41.  
 PMID: 2193918 [PubMed - indexed for MEDLINE]

7: [Irvin JE, Teather RM.](#) Related Articles  
 Cloning and expression of a *Bacteroides succinogenes* mixed-linkage

beta-glucanase (1,3-1,4-beta-D-glucan 4-glucanohydrolase) gene in *Escherichia coli*.  
Appl Environ Microbiol. 1988 Nov;54(11):2672-6.  
PMID: 3145707 [PubMed - indexed for MEDLINE]

8: [Erfle JD, Teather RM, Wood PJ, Irvin JE.](#)

Related Articles

Purification and properties of a 1,3-1,4-beta-D-glucanase (lichenase, 1,3-1,4-beta-D-glucan 4-glucanohydrolase, EC 3.2.1.73) from *Bacteroides succinogenes* cloned in *Escherichia coli*.  
Biochem J. 1988 Nov 1;255(3):833-41.  
PMID: 3063255 [PubMed - indexed for MEDLINE]

9: [Gaudet G.](#)

Related Articles

[Extracellular cellulases of "Bacteroides succinogenes"]  
Ann Microbiol (Paris). 1983 Jan-Feb;134A(1):111-4. French.  
PMID: 6847032 [PubMed - indexed for MEDLINE]

10: [Forsberg CW, Groleau D.](#)

Related Articles

Stability of the endo-beta-1,4-glucanase and beta-1,4-glucosidase from *Bacteroides succinogenes*.  
Can J Microbiol. 1982 Jan;28(1):144-8.  
PMID: 6802473 [PubMed - indexed for MEDLINE]

11: [Groleau D, Forsberg CW.](#)

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Cellulolytic activity of the rumen bacterium *Bacteroides succinogenes*.  
Can J Microbiol. 1981 May;27(5):517-30.  
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